

November 12, 1956 50 cents

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Detail Problems



How Chemical Fuels
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Rocket-Tube Ejector Raises Escape Margin Leading Aircraft Companies Specify



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conclusion to all register and an appropriate military specifications. For more information, write:

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#### What makes a wind tunnel commercially successful?

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### How General Electric Experience Advances Missile Technology



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ICBM non cone and other missile projects. General Electric personnel on highly complex de-Sense avateur problems, the Massie & Ordnance Sentern Department is making signal-cast contri General Electric Co., Schemettady S. New York

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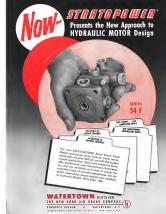
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#### 'Outside Security Realm' Consorling of spoothes present in top Acce, Navy

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#### F-84s in Egypt

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#### 'Cold Atoms'

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#### Washington Roundup -

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#### Flight Scholarships?

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## Runway Barriers Planned for Bombers

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#### Air Force Plans Budget Increase For Contract Technical Services

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## How New Congress Will Look In Wake of Last Week's Election

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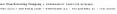
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#### AIR TRANSPORT

Iritial Agreement

## Eastern Handles Merger Complexities

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Market Potential

EASTERN AIR LINES' Naper G Contribition in type of equipment the restor plane to

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Manager's Chalco

WHEN ARE WEST WITH

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Braniff Bogins DC-7C Service

#### Newer Equipment

LINES-4 Driving of Entern An owner nets DC to us the use record Author-a De mon of EASTERN ARE letter 74% from Finters

Long Dries

Airlines Attack N. Y.-Florida Decision

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#### Domestic Trunk Lines Committed than the DC 7 To \$1.5 Billion Jet Program

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Mars Jet Orders • Pred S. Freed, director of freeness of

Temperor this bush research is address to 135 Seesay 767s and that producting capacity of the surface tant 9-6 races and another 100-150 se. evidente egocetsenty for redisidual Melion and distingue wit and shifty of each to nechanded the poolect." baranard seemt fresh and soil the 1966s up to 1,580 septems of hearistics the tendency of passengers to \* Arthur E. Reymond, vice wouldest. and the fights. This different toward

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DC-1 new \$110,800, gaing perce to

DC-6 new \$600,000,500,000, noder \$1.2 milies. aufone Diegod's lowest unit cost four

Opcreting Costs

34% for the DC7 and 33% for the DC 68 or 2,000 or , he said the DC-6 entrance everload time, 1,000 hr; co-

He reserved hose that the CAB would other leave force at correct levels Mautenner problem, which were aung Boome experience in a basis. He

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He said the in-faith shanders rate

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## GUARD AGAINST TAKEOFF DELAY



New Exide Retteries with Silvium orlds prove for safer appinst sudden failure

Don't except now yourses when a battery fully from and cornegus. The end is modeler—and conty for the swine But new Finds neverthers a new last of betteries eitsed at New features also metade ministrangements GOX acres



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#### Arthur Vining Davis Defends Loan To Avlee, Fights CAB Complaint Waterson-Arthur Versig Davi. Arter and Davin signed as signed

Accompany With Auto-



# TO THE MOON!

S OUT OF 10 OF ALL INTERNATIONAL AMLINES USE AVIATION PRODUCTS

#### SHORTLINES

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land a Challen Amond at Blanton \* Flowe Time Line spoots tude un 17% in fac once parez: 63 a man to 16,121,125 too rado: Floring Tigo: founds are super- new \$1.8 wellion to

October, 25% barker then October \*Motoric Address has corned today suggests across to the two cases on Dec | Mahrul has devoted to send

National Address will offer Florida making 12,000 races available between Dec. 20 and April 15 Accommods tone also are available in Hissana ► North Coatal Addison Rev. 94921 October traffic exceeded September

►Sun Proposes International Aircraft from September 1955, traffic

► United Air Lanes scoots Christer was

AIRLINE OBSERVER

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part. Door in traffic is peopled by Countyl to manifestor West Count rates. one connections at O'Elere as compared with the large number of anough-Noticed Arm, of State Avenion Officials has advaned a resolution survey argues that assignment of small second to long resource is necessorized and concentration to the concentration of the concentration of

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Brough and Mark with the new Massiv SAS belongery. The Religies certify well for two Births; a dor on the new mate. A message fight will be schokeled to consect with transcharts receive, and Sebens are it will get ► District Air Lines has deeped the DC3 from its schedules and in replace

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AVAILON WEEK Benerius 12, 1956

# RCA announces a avoidance

for installation in aircraft where weight.

new weather radar, the AVQ-50





RADIO CORPORATION of AMERICA ISSIS W. GLYSPIC SEVO., LOS ANGELES, CALIF.

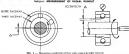








#### NEW HAMPSHIRE BALL BEARINGS IN ON MICHO-REATINGS PATERBOROUGH 1. NEW HAMPSHIRE Subjects MEASUREMENT OF BADIAL BUNCHT ECCENTRICITY A





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PRINCIPLE NAMEDON OFFERED

## AERONAUTICAL ENGINEERING

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4 A. O. POWER . . . 30 KVA. 400 series. 3 phone and 10 KW I phone, times regulated. AMP For Each or shape too coon and norpai 13.6 GPM, 1,000 mu la. recervete a TOWING ... All-wheel often sublines with

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... PLEGTRIC CORPORATION

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# Cale Electric Ca.



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# Hydraulic Research



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# This is America's newest traveling salesman



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The first responsibility of an airline

PAN AMERICAN WORLD AIRWAYS



#### COOL ENOUGH FOR YOU?

Fermal's new Cooling Effect Detector rides high in North American F-100F Super Sahre . . . Answers question: Is cooling air cool enough?

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## FAST . ACCURATE AUTOMATIC DATA PROCESSING



#### PROCESSES DATA IN MINUTES INSTEAD OF DAYS

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AVERTON WEEK, Namedon 12, 1956

# Force Gages Measure Controls

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AVAIDON WEEK, Howenber 12, 1994



## a navigation system that solves jets' problems

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This CPL System exides an agrelant to tingously and automatically - and with

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#### From Tokyo to Thule the Air Force meets the Solar Serviceman



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#### Tank Test Table Design Progresses

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#### General Electric Boys Cincinnati Land

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THE BOUGLAS DC-R, prevented by four PAW J-57 engines, will





AWATISM WEEK November 12, 1956

# THEY CAN RUN... BUT THEY CAN'T HIDE!

The "begun" never had it so bad. Successful infiltretion of our sides by The sleek, supersonic Skyrny has a new stinger-Westinghouse Aero 13

The Acro 12 armarent centrel system is another example of Westinghouse

THE ARE ARM EVENAGE PARKEY
Further Assuments. Tomber Defense. Florid Council.

WATCH WESTINGHOUSE!

Deligne bered-type peckage for perfectly in the nessed the agreed.

Beltimore 27, Maryland.





#### EXCEPTIONAL OPPORTUNITIES FOR SCIENTISTS AND ENGINEERS

in rocket development at Phillips Petroleum Company

The Todar Field Division of Philips Petroleum Company operates Air Fosse Plent 65, or main-militar dollor ploret with modern facilites for research, development, testing and monification of said gropofloot rodern

con new again to intentitio and engineers of provide risperience (see likely. Chellengue) appointation are also available to recent technical graduates, with a wishout superreace. Philips Technical Company in a programmy distributed company with several of more than one billion delices and a of more than one billion delices and a

You are smitted to sele to our Technical Francesco Office, Rocket Porks Division, Pulliga Fernicism Georgiery, McGreen, Federal Standard Will recover prompt, confected attention intervens will be amonged for quittined oppolicates.





Security Type Reckets by Phillips 66
Adon. Grant PUNHER variet, made from low
cost, potedware-derived insteads; gives the
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Left The Miss LATO was the first of the kind



Rocket Fiels Division PHILLIPS PETROLEUM COMPANY McGregor, Texas

## HUMAN FACTORS

#### Rocket-Tube Ejector Adds to Escape Margin for Jet Pilots

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AVIATION WEST, Named or 12

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AVADON WHE November 32, 1956



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ARROWHERD BURGES COMPANY



maners version of both designs. More



# 200 gpm fuel flowshut off in 1/4 second!

The shafloff wave is a pilot actuated, pastee.

A surpe relief velve, consisting of a go sale)

NOTE: Finner shut off forces are belonged

Win, E. Whitshay Co., Ltd., 515 H. Cliver Ave., Ltd. Accesse 28, Conf.



PERFORMANCE SHUT-OFF WAVE-OF her non Fated Dru-PELICT VADAS - Creations pressure - 105 PSI, Full refer from 4504 GPHs - 155 PSI.





Zone State



Starfighters' Fire-control Radars Use Borry's NEW Integral Mounting Systems Here's the way this system works Motor springs designed

House how Borre's Internal? Maurities Systems are meeting

this designed in the production models of the Strefelow

to the sleframe to satisfy Lockhaud's requirements for "plug-

ZIE PLEASANT STERRE, WATHRIOWN 72, MASSACHUSETTS



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New Company to Make Chemical Propellants

Founder of Paopelline in The Rabor. The correct sell week to the owner





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AVAILEN WISK Navender 12, 1956







AIRBORNE ACCESSORIES CORPORATION





Asymmetric in Committ Re: WINDOWT BOYO L/IN/TED + 745 At Planner Rd., Tomoro EE, Cod.







The Beering B42 Sentodictions, neural Air Force, following and Gennell Electric turbopurage and harbodirees to help supply its hydraulic said destroit power. Challeng up more than 16,000 hour operating team, these weight-serving power peach have helpful to make the gass to beside one of the mean advanced sixtent on the second orientation of the Service Code, OFFEATROG ON THE SERVICE OF FINCHISS, O.S.

a turbus, guirtig, and integral labitation and control sprices. Because their head eleign requires very few marring parts, G-R turbopurque and drives nor engineered to gree long, dependable service under the result strangest operating conditions. CORNACT AND SULF-COMTANDO, these utilize are located user the point where power is needed. Shall, becausife, reseals location reduces "drag" by catting results, reseals location reduces "drag" by catting

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# Weight, Permit Increased B-52 Performance

transmission lines. The lighter system weight obtained with GAT turbopamps and drives permits increased worth treats, speed, or position. TOP MILLIARTY OF AIR TURBON DESIVES in achieved by cross enumbleding the planch are supply during Through the surface, all drives abound the assemble.

FOR DETAILED INFORMATION on how G-E turbopumps and turboffware, amendectured by General Electrics's Arrestly Accessery. Turbase Department in Lyms, Mass, can answer the accessory power zeeds of your arrestly, content your General Electric Assistion and Defense Industries Sales Office, or clap possum for five determitter the latters. Outstal Black's Co., Section 2017

Phone and me believe SEA-DEPTA, SEA-0223 and SER-073 as to believe and drive.

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I am requesting this information

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# at Temco GROWTH tells the story

In seven years of steady expension, Times's aulfor almost enery major U. S. alstraft builder on perj-

from counties growth to messays, skells and faculties craft ladesiry. Tomos officer was a real chance to



AVIONICS

### Datamation: Third Hand for Controller

By Phylip J. Klass Independention entorage or test

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Revised ETA

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Heat at 500° F. doesn't harm it!



Cold at -90° F. doesn't harden it! AIRCRAFT CABLE

Tefon\*-insulated second; cable is an Packaged PSI-400 will explorated proeffectiveness. It is not affected by any PE-600 doors't stiffen, either For

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FACTS THAT COUNT



















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> Burroughs The Foremost Name

In Computation

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Henney TDC do a prestudier



# NEW BENDIX TRUE MASS FUEL FLOW SYSTEM APPLIES ANGULAR MOMENTUM PRINCIPLE WITH SINGLE TURBINE

Pioneer-Central Division



AVIATION WEEK, November 12, 1866











Heavything mends and after from shock and observed, it's an electrosic singur-necking mechanism. To allow was due on-floren yet to means againsted the classification under solution of analysis toward. The amount? A special research designed by ME with enough soft collassing action to about the analysis and research energy forces, and an impurious internal disapping mechanism to

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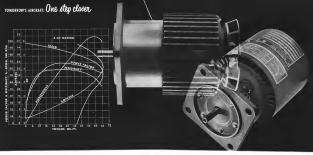
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